



PATENT ABSTRACTS OF JAPAN

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G01F 1/60(21) Application number: **57233508**(71) Applicant: **TOSHIBA CORP**(22) Date of filing: **28.12.82**(72) Inventor: **WADA ICHIRO****(54) ELECTROMAGNETIC FLOWMETER****(57) Abstract**

PURPOSE: To find cleaning timing without removing the main body of a flowmeter, by separating a pair of electrodes from a signal conversion part, connecting the electrodes to a DC power source, applying DC power across said pair of the electrodes, and measuring the change in transient phenomenon.

CONSTITUTION: When the presence or absence of attached material is detected by an electromagnetic flowmeter shown in the Figure, switches 32aW32c in a switching part 40 are switched to the sides of an attached material diagnosing part 50 from the flow rate measuring state shown in the Figure. At the same time, a clock signal is imparted to a hold circuit 61 and the attached material diagnosing part 50 from a clock signal source 62. As a result, a signal converting part 20 holds a value before DC power is applied. Meanwhile, a battery power source 31 is applied to a pair of electrodes 2a and 2b from a measuring part 17 of the attached material diagnosing part 50. A hold circuit 51 holds the signal voltage. After a specified period is elapsed, a second hold circuit 52 holds the signal voltage across the pair of the electrodes 2a and 2b. Based on both hold values and a preset value SV,

attaching degree, i.e., the cleaning timing on the inner surface of a pipe to be measured is obtained.

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